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EnCase keeps tabs on compliance complexity

By Oliver Rist , Brian Chee October 08, 2004 Flexible forensics tools closely tracks and records incidents

spite of identity theft, corporate espionage, and a bucket full of other white-collar crimes. Network managers will avoid this review because these are worst-case scenarios, and it's easier not to think about them than it is to rationally consider their potential costs. Mitigating these It's a sad fact that many a network manager will skip this review. This in spite of Sarbanes-Oxley, HIPAA, and Gramm-Leach-Bliley. This in

costs, both soft and hard dollar, is precisely what Guidance Software's (Profile, Products, Articles) EnCase Enterprise Edition is designed to Guidance Software describes EnCase

customers demand Windows Guidance Software EnCase Case Study: GoDaddy.com's Forum--Register by February InfoWorld's SOA Executive Sponsored by InfoWorld Sponsored by Microsoft as a "network-enabled forensics, ensuring your systems are properly analysis tool." Not only capable of incident response, and security intrusion detection system to closely patched, EnCase is fed by your snapshots for later review. Further, automating compliance testing for EnCase is an excellent tool for track attacks and record them with through servers and workstations stringent regulations such as HIPAA. distributed through the enterprise and from a single console for sensitive Companies can quickly search by whom. determine how files have been documents and images, then

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http://guidancesoftware.com/ Guidance Software,

Very Good 7	7.7		
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Features	9	25%	
Manageability	7	20%	
Performance	8	20%	
Integration	7	15%	
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AND THE PERSON OF PERSONS AND	***************************************		

Cost: \$1,600 per seat, as tested

Linux (kernėl 2.4), Solaris v8 and v9 (32-bit and 64-bit), Windows NT/2000/XP/2003

combined with its capability of EnCase's roots in law enforcement **Bottom Line:** integrated forensic solutions for the the more flexible and easily integrating with enterprise intrusion detection systems makes this one of must-have for companies faced with complex, this type of software is a enterprise. Although it's very compliance issues

About our Reviews and Scoring Methodology

the Examiners, and the Servlets. Authentication For EnCase) Server, components: the SAFE (Secure EnCase consists of three authentication and secure headquarters. This server manages system components and stores communication among all other Server can be viewed as Using a police metaphor, the SAFE specific network segments or precinct houses. They're in charge of EnCase log files for future analysis. architected your EnCase deployment. resources, depending on how you've The Examiners can be looked at as for analysis and incident response. They also act as command consoles They're installed on all EnCase-The Servlets are the field detectives.

running OSes including Linux, Solaris, and Windows. Servlets watch out for trouble, gather information, and send out alerts protected servers and workstations

one person at a time may examine data. This is certainly a flexible design, but it means that there's no simultaneous examiners and SAFE Servers you want for your enterprise. With a single license, only USB license dongles at the Examiner and SAFE Server stations. Licensing depends upon how many Each component communicates using TCP/IP port 4445 with asymmetrical encryption (certificates) and such thing as a typical EnCase installation; pricing can vary widely from organization to organization.

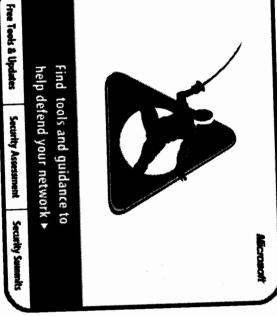
Casing the Joint

We tested EnCase in the wild, opening it up to four different class C subnets across the University of Hawaii's production network. Once installed, we used EnCase to run vulnerability and patch compliance tests against our Linux and Windows test machines.

whether any sensitive files, such as the Windows directory or the virus scanner, had been modified. This often occurs in Trojan horse images stored on the machine, whether current or recently deleted. We also compared the hash values from EnCase's library to determine The Examiner station also allowed us to browse files on each machine. This feature includes the capability of displaying thumbnails of any attacks, in which malware substitutes critical files with corrupted ones.

from headers and partial headers; we also could search with manual browsing. EnCase also allowed us to search for known corrupted or attack-based files on our machines using keywords, hash values, hex strings

organization; the HR administrator, for instance, might appropriately be given rights to search through all HR documents search questions; the well-designed GUI makes this easier. Adminis can delegate search authority to different people within the Searching for specific documents requires subject-matter expertise on the part of the user in order to formulate the properly phrased



survey by Insight Express and Telecommuters are less sec Don't take my word for it - tha productive, they are more likel People who work remotely are employees surveyed ... reported in EE Times. While 76 and it looks like Compuware hi the week of March 20 in Santa The EclipseCon 2006 conferent Compuware plans EclipseCo

representatives are being mos this event. Compuware and Ec about Compuware's plans. But

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to gather some statistics on DI spamhaus.org, sorbs.net, and For an upcoming article, I four

EnCase also features EnScript, a Perl/Java-like scripting language. Using EnScript, admins can customize searches of any combination of single or multiple machines for all documents meeting specific criteria, including size, keywords, extension type, and even the destination of the data. Thus an admin could craft a script that tracks documents containing the keywords "social security number" and whether an employee attempts to distribute them to improper departments or outside the organization.

EnCase keeps tabs on compliance complexity | InfoWorld | Review | 2004-10-08 | By Oliver Rist,Brian Chee

Administrators can set up EnCase to automatically monitor specific machines or groups for certain conditions, such as file alterations, rapid port probes, and more. If EnCase detects these activities, it can grab snapshots of the machine while the attack is in progress. By simply port probes, and more. If EnCase detects these activities, it can grab snapshots of the machine while the attack is in progress. By simply Security Systems' (Profile, Products, Articles) intrusion detection product or Snort for managing attack thresholds, making the feature all the looking at a case file, admins can clearly view at a later time the attack's entire progression. EnCase can be integrated with Internet

Case evidence and disk snapshots can be stored on just about any file system you wish. Snapshot information can also be mounted as a read-only volume, designed as a way to gather immediate evidence for later analysis.

can pertain to any number of incidents, such as a worm break or a case of an employee sending sensitive documents to an inappropriate recipient. Case files can contain various types of data, and they're locked up and protected from unauthorized access. In a nice touch, Using the stand-alone EnCase Professional Edition, you can produce a case file to submit to a local law enforcement agency. Case files these case files are open enough to accept additional data from other EnCase instances.

Additionally, each Examiner account can be given varying levels of access to examination functions. So a junior engineer might only able to take and store system snapshots, whereas a user with higher access privileges can later peel apart the images to create the case

Also, EnCase didn't directly support FreeBSD, one of the other platforms on which we tested. However, we were able to work around that, because EnCase allows admins to perform a manual forensic copy, which is essentially taking a snapshot of the entire disk image completed without incident, and even during operation we encountered only minor hiccups. For instance, it didn't correctly identify our Although the field of corporate computer-forensic products is rather new, the EnCase software is surprisingly mature. Installation Linux test machine as running Slackware, but it did correctly identify the Linux kernel version.

Finally, EnCase is remarkably complex. The company might seriously consider producing some tutorials on CD or some documentation (regardless of OS) using a directly attached slave drive, or a USB or network connection.

method for compliance testing with an automatic results store throw in. For many enterprises, solutions such as EnCase might be inside the firewall - such systems are often necessary for effective security. Further, EnCase provides an easy and centrally managed Forensic software such as EnCase began in the law enforcement field. But with the grave increase in computer crime -- especially from considered a security luxury; but for trading companies, banks, and even companies that merely keep a large amount of customer financial featuring example data. data, EnCase is a must

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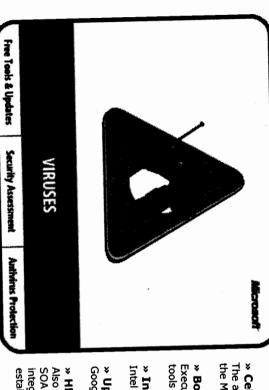
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Oliver Rist is a senior contributing editor at InfoWorld.



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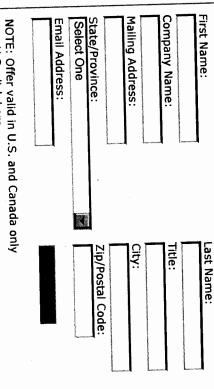
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